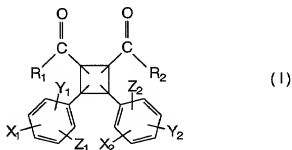


CLAIMS

1. An analgesic agent comprising as an active ingredient a cyclobutanedicarboxylic acid derivative, containing substituted diphenyl, represented by formula (I):



wherein X_1 , X_2 , Y_1 , Y_2 , Z_1 , and Z_2 , which may be the same or different, each independently represent a hydrogen atom, hydroxyl, a halogen atom, alkyl, alkoxy, or a nitrogen-containing group; and R_1 and R_2 , which may be the same or different, each independently represent hydroxyl, a halogen atom, alkoxy, aryloxy, terpeneoxy, saccharide, or a nitrogen-containing group.

2. The analgesic agent according to claim 1, wherein, in formula (I), $X_1 = X_2$, $Y_1 = Y_2$, and $Z_1 = Z_2$.

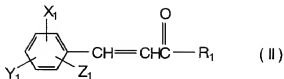
3. The analgesic agent according to claim 1 or 2, wherein any one of X_1 , Y_1 and Z_1 and any one of X_2 , Y_2 and Z_2 both represent hydroxyl or a halogen atom while the remaining groups represent a hydrogen atom.

4. The analgesic agent according to any one of claims 1 to 3, wherein R_1 and R_2 each independently represent hydroxyl, methoxy, or nitrophenoxy.

5. A process for producing a cyclobutanedicarboxylic acid derivative for the analgesic agent according to any one of claims 1 to 4, said process comprising the steps of:

providing a cinnamic acid derivative represented by formula (II)

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wherein X_1 , Y_1 , and Z_1 , which may be the same or different, each independently represent a hydrogen atom, hydroxyl, a halogen atom, alkyl, alkoxy, or a nitrogen-containing group; and R_1 represents hydroxyl, a halogen atom, alkoxy, aryloxy, terpeneoxy, saccharide, or a nitrogen-containing group; and

dispersing the derivative in an organic solvent and then irradiating the dispersion with light to allow photodimerization to proceed.

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